

ABSTRACT

A nozzle for providing a nitrous oxide/fuel mixture to a combustion cylinder. The nozzle has a body member having an inlet end and an outlet end and defining an angular bore and a straight bore. The angular bore intersects the straight bore and terminates at an inlet end such that there is fluid communication between the inlet end of the angular bore and the straight bore. The nozzle also has a tube concentric with the straight bore and terminating substantially flush with the outlet end of the body member. The tube is in fluid communication with an inlet end of the straight bore, and the tube and body member define an annular channel around the tube and a plurality of radially spaced outlet ports distributed around a central outlet port.